

Calculation of the Radiation Pattern of an Antenna over a Semiconducting Plane by a Modified Method of Images

Belashov V., Dmitriev I.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

We present an algorithm for finding the electromagnetic field produced by an antenna located near a semiconducting plane by the method of images. The results of calculating the radiation pattern of an X-shaped antenna system with four inclined beams, which is located in immediate proximity of the Earth's surface, are presented. © 2014 Springer Science+Business Media New York.

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